

ENVIRONMENTAL SOLUTIONS FOR FOOD & BEVERAGE PROCESSING



ENGINEER | DESIGN | BUILD | INSTALL

Custom Systems for Air Pollution Control and Water & Wastewater Treatment

Monroe Environmental has decades of experience working with plants and engineers in the food and beverage industries. We offer cost-effective solutions to meet demanding regulatory requirements, reduce maintenance costs, improve worker safety, streamline production, and minimize downtime.

Monroe's Engineered Systems

Air Pollution Control

- Packed Tower Scrubbers
- Venturi Scrubbers
- Quench Towers
- Dust Collectors
- Oil Mist Collectors
- Wet ESPs
- Fiber Bed Filters

Water & Wastewater Treatment

- API Oil/Water Separators
- Circular Clarifiers & Thickeners
- Lamella Plate Vertical Clarifiers
- Horizontal Plate Clarifiers
- Oil Skimmers/Oil Recovery Units
- X-Flo™ Mobile Clarifier
- Rental Clarifiers

Application & Process Expertise

Air Pollution Control

- NH₃, H₂S, SO₂, HCl, HF, and acid gas
- Particulate matter – PM₁₀ and PM_{2.5}
- Condensables, aerosols, and opacity
- VOCs and odor
- Mist and dust collection

Water & Wastewater Treatment

- Suspended (TSS) and dissolved (TDS) solids
- Metals precipitation and reduction
- Oil separation and recovery
- Ammonia and VOC stripping
- Mobile water treatment and rentals

Representative Monroe Projects



API Separator improves oil removal for snack chip production facility wastewater.



50 GPM Horizontal Clarifier rental pilot system for meat production facility wastewater.



12,000 ACFM Packed Bed Scrubber to exhaust odor and fumes from sauce cooking kettles.



Liming drum exhaust scrubbing – H₂S neutralization and fume control at a tannery. Dual 20,000 ACFM Packed Tower Scrubbers, FRP construction.



Circular Clarifier rebuild for wastewater treatment at a soft drink bottling facility. The internal mechanism, bridge, and drive were replaced in the 42 ft. diameter unit.



1,000 ACFM Spiral Tube Mist Collectors for mist collection from cheese mold wash-down/cleaning process. The spiral tubes provide a high level of mist agglomeration and removal without using filters.



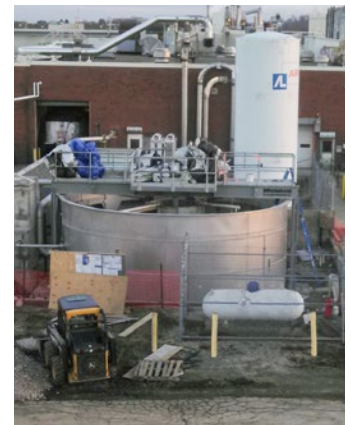
Monroe Multi-Stage Scrubbing System with Venturi Scrubber and Cyclonic Separator to remove particulate from food dryer exhaust prior to VOC destruction with a regenerative thermal oxidizer.



2,000 ACFM Dual Throat Venturi Scrubbers, 304 SS construction for particulate collection from marshmallow powdered sugar coating operation.



Plate Settler for enhanced separation of solids in a wastewater digester at a brewery. The unit was constructed from 304 SS and has 120 modules.



350 GPM Circular Clarifier with enhanced custom skimming system to handle foam and starch accumulation in wastewater for a snack foods company.

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